

**DEPARTMENT OF TRANSPORTATION**

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch  
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.28**WELDING INSPECTION REPORT****Resident Engineer:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-010128**Date Inspected:** 25-Oct-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China**CWI Name:** Li Ming, Gong Liang Zhu**CWI Present:** Yes No**Inspected CWI report:** Yes No N/A**Rod Oven in Use:** Yes No N/A**Electrode to specification:** Yes No N/A**Weld Procedures Followed:** Yes No N/A**Qualified Welders:** Yes No N/A**Verified Joint Fit-up:** Yes No N/A**Approved Drawings:** Yes No N/A**Approved WPS:** Yes No N/A**Delayed / Cancelled:** Yes No N/A**Bridge No:** 34-0006**Component:** Tower**Summary of Items Observed:**

On this day CALTRANS OSM Quality Assurance (QA) Inspector Umesh Gaikwad was present during the times noted above for observations relative to the fabrication of the SAS Superstructure being performed by Zhenhua Port Machinery Company (ZPMC) at Changxing Island in Shanghai, China. QA observed and/or found the following:

Bay 11 Strut

This QA inspector performed Magnetic Particle Testing (MT) of approximately 15%, Ultrasonic Testing (UT) of approximately 10% and random Visual Testing (VT) of the area previously tested and accepted by ZPMC Quality Control personnel. This QA Inspector generated an MT and UT reports for this date. The members are identified as Tower Components. The weld designations reviewed are as follows.

WD1-A6001-4

Outside Yard South Tower Lift 3

This QA inspector performed Magnetic Particle Testing (MT) of approximately 15% and random Visual Testing (VT) of the area previously tested and accepted by ZPMC Quality Control personnel. This QA Inspector generated an MT reports for this date. The members are identified as Fit Lug on skin A, B, E of 85.25M & 92.5M diaphragm and skin A/B/E with diaphragm of 85.25M & 92.5M diaphragm. The weld designations reviewed are as follows.

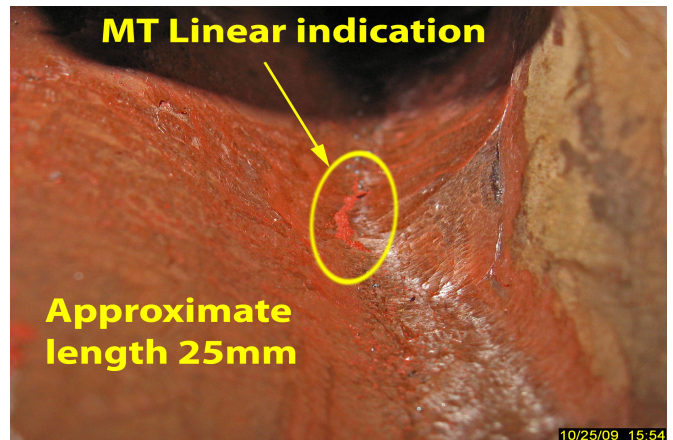
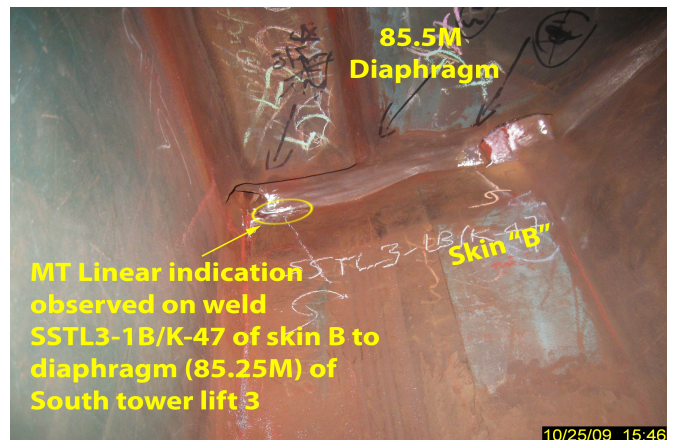
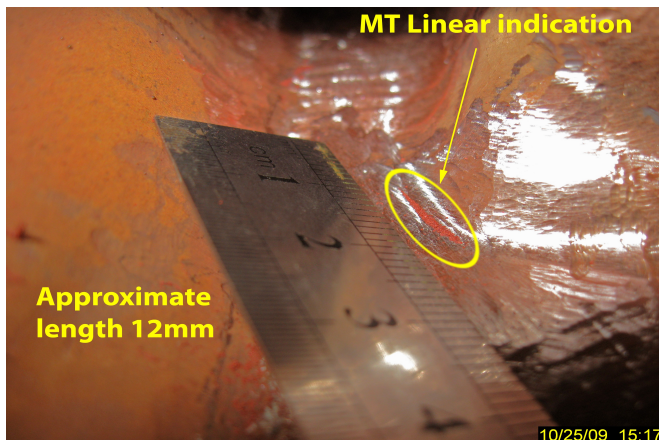
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SSTL3-1B/K-35, 36, 39, 40  
SSTL3-1B/K-23, 24, 25, 26  
SSTL3-1B/K-51, 52, 73, 74  
SSTL3-1B/K-42, 48, 49, 50  
SSTL3-1F/K-31, 32, 37, 38  
SSTL3-1F/K-23, 24, 25, 26  
SSTL3-1F/K-51, 52, 53, 54  
SSTL3-1F/K-35, 36, 29, 30, 49, 50  
SSTL3-1B/K-41 (12mm MT LINEAR INDICATION OBSERVED)  
SSTL3-1B/K-47 (15mm & 25mm MT LINEAR INDICATIONS OBSERVED)

During random verification Magnetic Particle Testing (MT) of South tower lift 3, 85.25M diaphragm to skin A, weld SSTL3-1B/K-41 and 85.25M to skin B, weld SSTL3-1B/K-47 located in the outside yard (near Milling section), Caltrans Quality Assurance (QA) Inspector discovered linear indications of approximately 12mm, 15mm and 25mm in length. This area had been previously tested and accepted by ZPMC NDT personnel (NDT Inspection Notification sheet # 004476). The attached photographs provide additional detail.

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

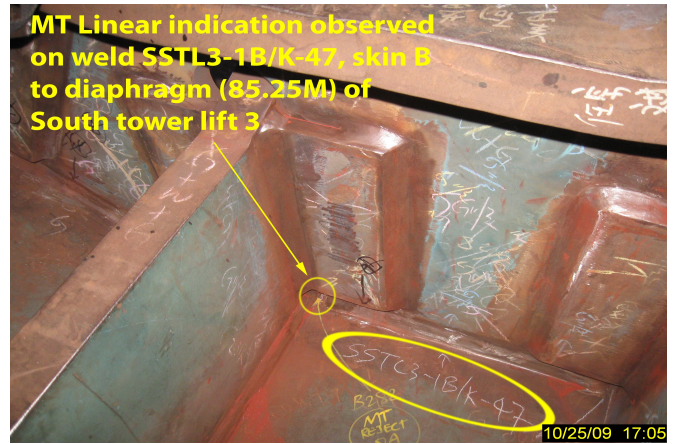
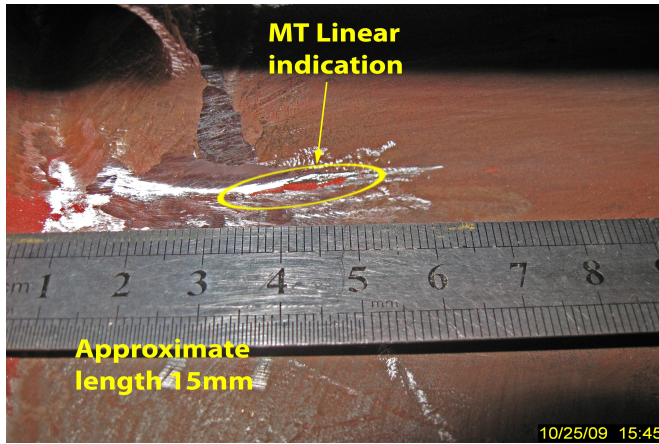


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### Summary of Conversations:

Only general conversation was held between QA and QC concerning this project.

### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Serge Sinevod 134-8257-0045, who represents the Office of Structural Materials for your project.

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**Inspected By:** Gaikwad,Umesh

Quality Assurance Inspector

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**Reviewed By:** Clifford,William

QA Reviewer